

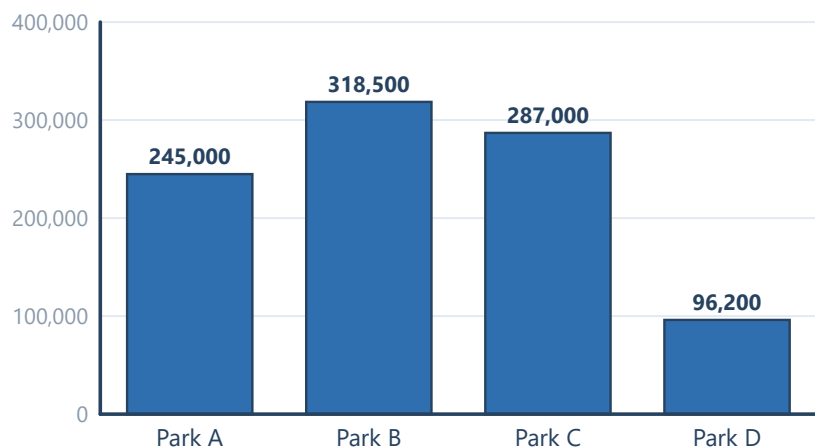
Year 5: Solving number and practical problems: answers

Year 5 - Place Value to 1,000,000 - Lesson 1.7

Answers. Final answers to the worksheet questions. Full step-by-step solutions for every question are free at websink.site/ks2-sats/maths/year-5/ch01-place-value/solving-number-and-practical-problems/

Exercise 1G Problems and puzzles Non-calculator

- 1 The bar chart shows the number of visitors to four parks in one year.



- (a) Which park had the most visitors?

Answer: Park B

- (b) Round the number of visitors to Park D to the nearest 10,000.

Answer: 100,000

- (c) Which two parks have the same number of visitors when rounded to the nearest 100,000?

Answer: Park B and Park C

- 2 Use all six cards to make the **largest** number that rounds to 500,000 when rounded to the nearest 100,000.



Answer: 549,820

- 3 I am a six-digit number.

Rounded to the nearest 100,000 I am 800,000.

Rounded to the nearest 10,000 I am 840,000.

Rounded to the nearest 1,000 I am 838,000.

My hundreds digit is 4.

My tens digit is double my ones digit, and my ones digit is not 0.

My digits add up to 35.

What number am I?

Answer: 838,484

- 4 A football stadium has 62,500 seats. Each year for 5 years it adds 1,000 more seats. Then 10,000 seats are taken out to make room for a new stand.
- (a) How many seats are there after 5 years of adding seats?
- Answer:** 67,500
- (b) How many seats are there after the stand is built?
- Answer:** 57,500
- 5 A diver is at -24 m. She swims up 9 m and then dives down 15 m.
- (a) Where is she now?
- Answer:** -30 m
- (b) Another diver is at -11 m. How much deeper is the first diver than the second?
- Answer:** 19 m
- 6 A theatre sells 4,980 tickets in the first week and 5,120 tickets in the second week. Estimate the total number of tickets sold by rounding each number to the nearest 1,000.
- Answer:** 10,000
- 7 A church was built in the year MDCCLXXXIX. Round that year to the nearest 100.
- Answer:** 1800
- 8 One newspaper says that 80,000 people watched a match (to the nearest 10,000). Another newspaper says that 84,000 people watched (to the nearest 1,000). Could both newspapers be correct? Explain.
- Answer:** Yes. 84,000 rounds to 80,000.
- 9 Which one is different? 1,000 + 200 + 5 1,250 MCCV one thousand, two hundred and five
- Answer:** 1,250
- 10 Is this always, sometimes or never true?
"When you round a number to the nearest 100, the answer is bigger than the number."
- Answer:** Sometimes
- 11 What is the largest whole number that rounds to 500,000 when rounded to the nearest 100,000, and has six **different** digits?
- Answer:** 549,876